

**OPINION 2337 (Case 3600)****Species-group names proposed for Devonian ammonoids (Mollusca, Cephalopoda) by Sobolew (1914a, 1914b) reinstated as available**

**Abstract.** The Commission has reinstated the availability of specific names proposed for Devonian ammonoids (Mollusca, Cephalopoda) by Sobolew (1914a, 1914b) widely used by palaeontologists and stratigraphers for almost a century even though these names were established in a work placed on the Official Index of Rejected and Invalid Works in Zoological Nomenclature by Direction 32 (following Opinion 132, in which the genus-group names (Gattungsbezeichnungen) established by Sobolew (1914a, 1914b) were considered to be formulas and not available generic names). The entries for Sobolew (1914a, 1914b) in the Official Index of Works in Zoology have been emended to record that the 88 species-group names established in these works are available from the original publications.

**Keywords.** Nomenclature; taxonomy; Ammonoidea; Clymeniida; Goniatitida; Sobolew; Devonian; ammonoids.

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**Ruling**

- (1) The International Commission on Zoological Nomenclature has ruled under the plenary power that 88 species-group names established by Sobolew (1914a, 1914b) (88 names on the list below, except for *Oma-monoceras* (*Cheiloceras*) *parvum* Sobolew, 1914a, which is a nomen nudum), are available from the original publications.
- (2) The entries for Sobolew (1914a, 1914b) in the Official Index of Works in Zoological Nomenclature are hereby emended to record that the 88 species-group names established in these works are available from the original publications, as ruled in (1) above.

**History of Case 3600**

An application to reinstate the availability of specific names proposed for Devonian ammonoids (Mollusca, Cephalopoda) by Sobolew (1914a, 1914b) in a work placed on the Official Index of Rejected and Invalid Works in Zoological Nomenclature by Direction 32 was received from R. Thomas Becker (*Westfälische Wilhelms-Universität, Institut für Geologie und Paläontologie, Münster, Germany*) and Svetlana V. Nikolaeva (*Paleontological Institute, Russian Academy of Sciences, Moscow, Russia & International Commission on Zoological Nomenclature Secretariat, Natural History Museum, London, U.K.*) on 30 May 2012. After correspondence the case was published in BZN **69**: 170–177 (September 2012). The title, abstract and keywords of the case were published on the Commission's website. Supportive comments were published in BZN **70**(1): 45–46, and **71**(2): 95–98.

### Decision of the Commission

On 1 March 2014 the members of the Commission were invited to vote on the proposals published in BZN 69: 173 and emended in Voting Paper 3 (to exclude *Oma-monomerocheras* (*Cheiloceras*) *parvum* Sobolew, 1914a). At the close of the voting period on 1 June 2014 the votes were as follows:

Affirmative votes – 24: Alonso-Zarazaga, Ballerio, Bogutskaya, Bouchet, Brothers, Fautin, Grygier, Halliday, Harvey, Kojima, Kottelat, Krell, Kullander, Lamas, Lim, Ng, Pape, Patterson, Rosenberg, van Tol, Winston, Yanega, Zhang and Zhou.

Negative votes – 1: Štys.

Pyle was on leave of absence.

Voting FOR, Kullander explained that there were the original proposal (89 species) and the alternative proposal (88 species), and his vote was for the latter. Voting AGAINST, Štys said that he had to vote against since the application was highly incomplete, lacking the original binominal combinations of the species names and status of the appended list of specific names (containing unexplained solutions of homonymies, original spellings, validity of names and unavailability of one of them).

### An annotated list of specific names established by Sobolew (1914a, 1914b), with reference to taxonomic treatments by subsequent authors

The 34 taxa listed in bold have been regarded as valid by most, if not all subsequent authors. Those among them marked by † are based on juveniles and might eventually prove to have available synonyms. The unmarked non-bold names are generally considered as junior synonyms. The names marked by \* have been regarded as valid by some authors. Junior homonyms and one nomen nudum that will remain invalid are marked by (-).

### Genus *Oma-monomerocheras* (*Cheiloceras*)

1. ***acrilobum*** Sobolew, 1914a, p. 48;
2. ***acutilobum*** Sobolew, 1914a, p. 35;
3. \**subpartitum angustivaricatum* Sobolew, 1914a, p. 37;
4. \**arcuatovaricatum* Sobolew, 1914a, pp. 51–52;
5. \**avaricatum* Sobolew, 1914a, p. 48;
6. \**contrcurvispina* Sobolew, 1914a, p. 44;
7. \**contrverneuili* Sobolew, 1914a, p. 44;
8. ***depressum*** Sobolew, 1914a, p. 49;
9. ***discoideale*** Sobolew, 1914a, p. 31 (priority established by Korn & Klug (2002) over (*Aganides*) *discoideale* Sobolew, 1914a);
10. \**discotransversale* Sobolew, 1914a, pp. 46–47;
11. ***glabrum*** Sobolew, 1914a, p. 48;
12. ***globosoides*** Sobolew, 1914a, p. 42;
13. \**globulare* Sobolew, 1914a, p. 49;
14. *subpartitum lativaricatum* Sobolew, 1914a, p. 36 (priority established by Korn & Klug (2002) over *amblylobum lativaricatum* Sobolew, 1914a);
15. (-) *amblylobum lativaricatum* Sobolew, 1914a, p. 41;
16. \**lenticulare* Sobolew, 1914a, pp. 49–50;

17. *longilobum* Sobolew, 1914a, p. 30 (priority over *Oma-monomeroceras* (*Cheiloceras*) *sacculus longilobum* Sobolew, 1914a (p. 42) is established under Article 57.7 of the Code);
18. (-) *sacculus longilobum* Sobolew, 1914a, p. 42;
19. \**multivaricatum* Sobolew, 1914a, p. 31;
20. *discoideale* var. *parvum* Sobolew, 1914a, p. 31 (available under Article 45.6.4);
21. (-) *parvum* Sobolew, 1914a, p. 69 (nomen nudum);
22. *postinversum* Sobolew, 1914a, p. 43;
23. *Ch. praeglobosum* Sobolew, 1914a, p. 43;
24. *praelagowiense* Sobolew, 1914a, p. 31;
25. *praelentiforme* Sobolew, 1914a, p. 34;
26. *praepolonicum* Sobolew, 1914a, p. 35;
27. *rotundum* Sobolew, 1914a, p. 44;
28. *semiinversum* Sobolew, 1914a, p. 46;
29. \**simplicissimum* Sobolew, 1914a, p. 44;
30. \**sinuvaricatum* Sobolew, 1914a, p. 51;
31. †*subcostatum* Sobolew, 1914a, p. 52;
32. *subinversum* Sobolew, 1914a, p. 43;
33. \**sublagowiense* Sobolew, 1914a, p. 31;
34. \**sublentiforme* Sobolew, 1914a, p. 30;
35. \**sublentitransversale* Sobolew, 1914a, p. 47;
36. \**subsinuvaricatum* Sobolew, 1914a, p. 51;
37. *tenuis* Sobolew, 1914a, p. 50;
38. \**transversale* Sobolew, 1914a, pp. 45–46;
39. *umbilifer* Sobolew, 1914a, p. 53. Spelling *umbilifer* has been selected as the correct original spelling over *umbiliferum* under Article 24.2.3 of the Code.

#### **β-Oma-dimeroceras (*Sporadoceras*)**

40. \**curvispina* Sobolew, 1914a, p. 33;
41. *kielcense* Sobolew, 1914a, p. 32;
42. *lagowiense* Sobolew, 1914a, p. 32;
43. *nux* Sobolew, 1914a, p. 40;
44. \**polonicum* Sobolew, 1914a, p. 39;
45. *praevaricatum* Sobolew, 1914a, p. 36;
46. \**subvaricatum* Sobolew, 1914a, p. 35.

#### **α-Oma-dimeroceras (*Dimeroceras*)**

47. *globosum* Sobolew, 1914a, p. 42;
48. *lentiforme* Sobolew, 1914a, p. 34;
49. †*umbilicatum* Sobolew, 1914a, p. 54.

#### **Oma-monomeroceras (*Aganides*)**

50. \**atavum* Sobolew, 1914a, p. 37;
51. (-) *discoideale* Sobolew, 1914a, p. 37;
52. *sulcatum* var. *globus* Sobolew, 1914a, p. 40 (available under Article 45.6.4);

**$\alpha$ -Oma-dimeroceras (*Praeglyphioceras*)**

- 53. *lagowiense* var. *globulare* Sobolew, 1914a, p. 40 (available under Article 45.6.4);
- 54. *kielcense* Sobolew, 1914a, p. 39;
- 55. \**lagowiense* Sobolew, 1914a, p. 39;
- 56. †*niwae* Sobolew, 1914a, p. 48.

**Oma-re-protomeroceras** [assigned to *Prolobites* by Sobolew (1914a, p. 25)]

- 57. *umbilicatum* Sobolew, 1914a, p. 54.

**Gomi-monomeroceras (*Tornoceras*)**

- 58. *kielcense* Sobolew, 1914a, p. 57;
- 59. †*sublentiforme* Sobolew, 1914a, p. 56.

**Gomi-re-monomeroceras (*Tornoceras*)**

- 60. *planilobum angulatolobatum* Sobolew, 1914b, p. 355;
- 61. *planilobum arcuatolobatum* Sobolew, 1914b, p. 353;
- 62. *planilobum avaricatum* Sobolew, 1914a, p. 60 (priority established by Korn & Klug (2002) over *dorsoplanum avaricatum* Sobolew, 1914a);
- 63. (-) *dorsoplanum avaricatum* Sobolew, 1914a, p. 65;
- 64. †*curvidorsatum* Sobolew, 1914a, p. 59;
- 65. *evolutum* Sobolew, 1914a, p. 68;
- 66. \**flexuosum* Sobolew, 1914a, p. 62;
- 67. *genulobatum* Sobolew, 1914b, p. 358;
- 68. (-) *planilobum ornatum* Sobolew, 1914b, p. 356 (probable secondary junior homonym of *Prototornoceras ornatum* Dybczynski, 1913);
- 69. †*planilobum* Sobolew, 1914a, p. 59;
- 70. *genulobatum planum* Sobolew, 1914b, p. 358;
- 71. *simplicius rotundatum* Sobolew, 1914b, p. 361 (priority established by Korn & Klug (2002) over *simplificatum rotundatum* Sobolew, 1914b);
- 72. *simplicius subacutum* Sobolew, 1914b, p. 360 (priority established by Korn & Klug (2002) over *simplificatum subacutum* Sobolew, 1914b);
- 73. (-) *simplificatum rotundatum* Sobolew, 1914b, p. 361;
- 74. †*simplicius* Sobolew, 1914a, p. 63;
- 75. †*simplificatum* Sobolew, 1914a, p. 63;
- 76. †*sinuvaricatum* Sobolew, 1914a, p. 59;
- 77. (-) *simplificatum subacutum* Sobolew, 1914b, p. 360;
- 78. *umbilicatoides* Sobolew, 1914a, p. 64;
- 79. \**umbilicatum* Sobolew, 1914a, p. 61.

**Gomi-re-protomeroceras** [assigned by Sobolew (1914a, p. 28) to *Mimoceras*]

- 80. *alobatum* Sobolew, 1914a, p. 61;
- 81. \**simplicissimum* Sobolew, 1914a, p. 63.

**Gomi-monomeroclymenia** [assigned by Sobolew (1914a, p. 28) to *Oxyclymenia* or *Cyrtoctlymenia*]

82. \**Humboldti flexilobata* Sobolew, 1914a, p. 64;
83. *Humboldti genulobata* Sobolew, 1914a, p. 66;
84. *curvidorsata planiloba* Sobolew, 1914b, p. 354;
85. *Humboldti rotundata* Sobolew, 1914b, p. 361; cited by Korn & Klug (2002) as a junior subjective synonym of *Protactoclymenia humboldtii* (Pusch, 1837);
86. \**subacuta* Sobolew, 1914a, p. 64; cited by Korn & Klug (2002) as a junior subjective synonym of *Protactoclymenia humboldtii* (Pusch, 1837); Dzik (2006) as a valid species of *Cyrtoctlymenia*.
87. *Humboldti undosa* Sobolew, 1914b, p. 360; cited by Korn & Klug (2002) as a junior subjective synonym of *Protactoclymenia humboldtii* (Pusch, 1837).

**Gomi-protomeroclymenia** [assigned by Sobolew (1914a, p. 28) to *Protactoclymenia*, *Genuclymenia* or *Varioclymenia*].

88. *angustiseptata (?) subcostata* Sobolew, 1914b, p. 362;
89. *varicata* Sobolew 1914b, p. 373.

#### Original references

The following are the original references to the amendments made to an Official Index by the ruling given in the present Opinion:

- Sobolew, D.N. 1914a. *Izvestiya Varshavskago Politekhnicheskago Instituta*, **1914**(1): 1–193, 9 pls.
- Sobolew, D.N. 1914b. Über Clymenien und Goniaticten. *Paläontologische Zeitschrift*, **1**: 348–378.